


|  |           |                |                                      |                   |                 |                     |
|--|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|  |           | <b>Part 1</b>  | <b>Specific Sections</b>             | Jul-26-12         |                 | Page: 1             |



Mercedes-Benz

## Application for Certification – Part 1 2013 Model Year

### Specific Sections

#### Test Group DMBXV03.0U2A

**Durability Group:** DMBXDPDNNPP2

**Evaporative Family:** n/a

**EPA Summary Sheet No.:** CSI-DMBXV03.0U2A

**Durability Group Description:** Diesel Cycle - Four Stroke - water cooled –  
piston-diesel – direct injection  
Pt Oxidation Catalyst (OC)  
Diesel Particulate Filter (DPF)  
Selective Catalytic Reduction (SCR) Catalyst

**Test Group Description(s):** 3.0 ltr. V6


**Applicable Standards:** Federal state: Tier 2 (bin 5)  
Calif: LEV II (ULEV)

**Vehicle(s) Covered:** S 350 BLUETEC 4MATIC

**Vehicles Tested:** Exhaust: V221DE30TC – Z3856  
Evap: n/a

### EPA Response Requested By:

Brian Fitzgerald, 734.997.2002

|   |           |                |  |            |          |                     |
|---|-----------|----------------|--|------------|----------|---------------------|
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## Table of Contents & Revisions

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### Revisions:


| Issue Date /<br>Revision Date | Affected Pages | Description of Changes |
|-------------------------------|----------------|------------------------|
| Jul-26-12                     | all            | Initial Version        |
|                               |                |                        |
|                               |                |                        |
|                               |                |                        |

## S-01: Correspondence

(refer to S-01 in common section for a complete list of contacts)

Eric Schneider  
Manager, Government Liaison, CARB  
Resp.: CARB Liaison  
Phone: 310.549.7600, Fax: 310.518.3060  
e-mail: eric.a.schneider@daimler.com

Brian Fitzgerald  
Manager, Government Liaison, EPA  
Resp.:EPA Liaison  
Phone: 734.997.2002, Fax: 734.995.1342  
e-mail: brian.fitzgerald@daimler.com

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## S-02: Durability Group Description

Please refer to the common application for certification.

## S-03: Evaporative/Refueling Family Description

ORVR Testing Waiver per CFR § 86.1810-01 (k) + (m)

Due to the low vapor pressure of diesel fuel and the vehicle tank temperatures, hydrocarbon vapor concentrations are low and the vehicle meets the 0.20 grams/gallon refueling emission standard without a control system.

## S-04: Durability Procedure Description

Please refer to the common application for certification.


## S-05: Test Group Description

The summary sheet numbers are provided on the cover page of this application. The Test Group Description is provided in section 2 of the common application as part of the durability group description.

## S-06: Test Vehicle Description

| vehicle use | car number | vehicle type                  | engine displ. [cm <sup>3</sup> ] | engine code | transm. | ETW [lbs] | exhaust emission control system                |
|-------------|------------|-------------------------------|----------------------------------|-------------|---------|-----------|--|
| EDV-Ex      | V221-Z3856 | V221DE30TC                    | 2987                             | OM642-30    | L-7     | 5000      | DFI/TC/CAC/EGR/EGRC/OC/PTOX/2SCR-U/NOXS(2)/AFS |
| DDV-Ex      | L906-1056  | L906-1056-L906DE30TC (4,53to) | 2987                             | OM642-30C   | L-7     | 8500      | DFI/TC/CAC/EGR/EGRC/OC/PTOX/2SCR-U/NOXS(2)/AFS |

| Test Group   | Model Name           | curb weight [lbs] | ETW [lbs] | GVW [lbs] | EPA car class |
|--------------|----------------------|-------------------|-----------|-----------|---------------|
| DMBXV03.0U2A | S 350 BLUETEC 4MATIC | 4815              | 5000      | 5974      | LDV           |

|   |           |                |                                      |            |          |                     |
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## S-07: Test Results

### S-07-01: Test Vehicle Information

Verify Processing Report

**Total Datasets Submitted: 1**

**Accepted Datasets: 1**

**Rejected Datasets: 0**

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission

Test Vehicle Information Details

**Information Process Code : N**

**EPA Manufacturer Code : MBX**

**Vehicle Identification Text : V221DE30TC-Z3856**

**Vehicle Configuration Number : 0**

Vehicle Configuration Details

Vehicle Description Details

**Manufacturer Vehicle Configuration Number : 0**

**Test Group Name : CMBXV03.0U2A**

**Model Year : 2012**

**Actual Test Vehicle Make Text : Mercedes-Benz**

**Actual Test Vehicle Model Text : S 350 BLUETEC 4MATIC**

Drive Source Details

**Drive Source Identifier : C**

**Fuel Identifier : D**

**Test Drive Code : 4**

**Shift Indicator Light Usage Identifier : 1**

**Aged Component Usage Identifier : 4**

Odometer Correction Details

**Correction Initial Value : 168**

**Correction Factor Value : 1**

**Correction Sign Identifier : -**

**Correction Units Code : M**

**Engine Code Text : OM642-30**

**Engine Rated Horsepower Value : 240**

**Engine Displacement Value : 2.987**

Air Aspiration Details

**Air Aspiration Method Identifier : TC**

**Air Aspiration Device Count : 1**

**Air Aspiration Configuration Identifier : N**


**Charge Air Cooler Identifier : A**

Vehicle Specifications Details

**Curb Weight Value : 4815**

**Equivalent Test Weight Value : 5000**

**Gross Vehicle Weight Rating Value : 5974**

|   |           |                |                                      |            |          |                     |
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**NV Ratio Value** : 24.7  
**Axle Ratio Value** : 2.65

Transmission Specifications Details

**Light Duty Transmission Type Identifier** : A  
**Transmission Lockup Indicator** : Y  
**Transmission Creeper Gear Indicator** : N  
**Transmission Gear Count** : 7

Target Set Coefficient Details

**Test Procedure Dynamometer Coefficients Category** : US06  
**Target CoefficientA Value** : 48.587  
**Target CoefficientB Value** : 1.05901  
**Target CoefficientC Value** : 0.010073  
**Set CoefficientA Value** : 28.753  
**Set CoefficientB Value** : 0.3748  
**Set CoefficientC Value** : 0.015465

Target Set Coefficient Details

**Test Procedure Dynamometer Coefficients Category** : C-H-E  
**Target CoefficientA Value** : 48.587  
**Target CoefficientB Value** : 1.05901  
**Target CoefficientC Value** : 0.010073  
**Set CoefficientA Value** : 28.753  
**Set CoefficientB Value** : 0.3748  
**Set CoefficientC Value** : 0.015465

**Manufacturer Comment Text** : GOODYEAR Excellence RoF MOE 255/45R18

EPA Generated Test Vehicle Details

**Original Receipt Date** : 20110701  
**Hybrid Vehicle Indicator** : N  
**Adjusted Loaded Vehicle Weight Value** : 5394  
**Loaded Vehicle Weight Value** : 5115  
**Total Road Load Horsepower Value** : 16.9

Transaction Status Details

**Transaction Status Identifier** : ACCEPTED

|   |           |                |                                      |                   |                 |                     |
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## S-07-02: Test Results

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### Certification Summary Information Report

|                                   |               |                                     |            |
|-----------------------------------|---------------|-------------------------------------|------------|
| <b>Manufacturer</b>               | Mercedes-Benz | <b>Manufacturer Code</b>            | MBX        |
| <b>Test Group</b>                 | DMBXV03.0U2A  | <b>Evaporative/Refueling Family</b> | N/A        |
| <b>Certificate Number</b>         | N/A           | <b>CARB Executive Order #</b>       | N/A        |
| <b>Certificate Issue Date</b>     | N/A           | <b>Certificate Revision Date</b>    | N/A        |
| <b>Certificate Effective Date</b> | N/A           | <b>Conditional Certificate</b>      | --         |
| <b>CSI Revision #</b>             | N/A           | <b>CSI Submission/Revision Date</b> | 09/26/2012 |
| <b>Model Year</b>                 | 2013          |                                     |            |

|                                  |                       |  |     |
|----------------------------------|-----------------------|--|-----|
| <b>Test Group Information</b>    |                       |  |     |
| <b>CSI Type</b>                  | Update for Correction | <b>Running Change Reference Number</b> | N/A |
| <b>GHG Exempt Status</b>         | Not Exempt            |  |     |
| <b>Drive Sources and Fuel(s)</b> |                       |  |     |
| <b>Drive Source #1:</b>          | Combustion Engine     |  |     |

| Fuel   | Basic Fuel Metering System          | Lean Burn Strategy Indicator |
|--------|-------------------------------------|------------------------------|
| Diesel | Common Rail Direct Diesel Injection | --                           |

|   |              |  |              |
|---|--------------|--|--------------|
| <b>Hybrid Indicator</b>                       | No           |  |              |
| <b>Multiple Fuel Storage</b>                  | --           | <b>Rechargeable Energy Storage System Indicator</b>        | --           |
| <b>Multiple Fuel Combustion</b>               | --           | <b>Off-board Charge Capable Indicator</b>                  | --           |
| <b>Fuel Cell Indicator</b>                    | --           | <b>EPA Vehicle Class</b>                                   | LDV          |
| <b>Federal Clean Fuel Vehicle</b>             | No           | <b>Federal Clean Fuel Vehicle Standard</b>                 | --           |
| <b>Federal Clean Fuel Vehicle ILEV</b>        | No           | <b>California Partial Zero Emissions Vehicle Indicator</b> | No           |
| <b>Durability Group Name</b>                  | DMBXDPDNNPP2 | <b>Durability Group Equivalency Factor</b>                 | 1.0          |
| <b>Reduced Fee Test Group</b>                 | No           | <b>Certification Region Code(s)</b>                        | FA, CA       |
| <b>Complies with HD GHG 2b/3 regulations?</b> | No           |  |              |
| <b>Introduction into Commerce Date</b>        | --           | <b>CAP2000 Conditional Certificate?</b>                    | N/A          |
| <b>Independent Commercial Importer?</b>       | --           | <b>Alternative Fuel Converter Certificate?</b>             | --           |
| <b>SFTP Compliance Indicator</b>              | Yes          | <b>SFTP Composite CO Option</b>                            | No           |
| <b>OBD Compliance Type</b>                    | CARB         | <b>OBD Demonstration Vehicle Test Group</b>                | BMBXV03.0U2B |
| <b>Mfr Test Group Comments</b>                | --           |  |              |
| <b>Mfr Exhaust / Evap Standards Comments</b>  | --           |  |              |

| Models Covered by this Certificate |                   |                            |                                     |               |              |              |                |
|------------------------------------|-------------------|----------------------------|-------------------------------------|---------------|--------------|--------------|----------------|
| Carline Manufacturer               | Division          | Carline                    | Certification Region Code(s)        | Drive System  | Trans - Type | - # of Gears | Trans - Lockup |
| Mercedes-Benz                      | 1 - Mercedes-Benz | 209 - S 350 BLUETEC 4MATIC | Federal                             | 4-Wheel Drive | Automatic    | 7            | Yes            |
| Mercedes-Benz                      | 1 - Mercedes-Benz | 209 - S 350 BLUETEC 4MATIC | California + CAA Section 177 states | 4-Wheel Drive | Automatic    | 7            | Yes            |

|   |           |                |                                      |                   |                 |                     |
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|---|--|-------------------------------|--|--|--|---------------------|--|------------------------|--|------------------|--|
| Test Group                                |  | DMBXV03.0U2A                  |  | Evaporative/Refueling Family             |  | N/A                 |  |                        |  |                  |  |
| Engine Description                        |  |                               |  |  |  |                     |  |                        |  |                  |  |
| Hybrid Type                               |  | --                            |  | Hybrid Description                       |  | --                  |  |                        |  |                  |  |
| Engine Type                               |  | 4-Stroke Compression Ignition |  | Mfr Engine Description                   |  | --                  |  |                        |  |                  |  |
| Engine Block Arrangement                  |  | V-shaped engine               |  | Mfr Engine Block Arrangement Description |  | --                  |  |                        |  |                  |  |
| Camless Valvetrain Indicator              |  | No                            |  | Oil Viscosity/Classification             |  | 0W-30               |  |                        |  |                  |  |
| Number of Cylinders/Rotors                |  | 6                             |  |  |  |                     |  |                        |  |                  |  |
| After Treatment Device(s) (ATD)           |  |                               |  |  |  |                     |  |                        |  |                  |  |
| ATD Number                                |  | ATD Type                      |  | ATD Precious Metal                       |  | Substrate Material  |  | Substrate Construction |  |                  |  |
| 1   |  | Oxidation catalyst            |  | Platinum + Palladium                     |  | Ceramic             |  | Monolith               |  |                  |  |
| 2   |  | Diesel Particulate Filter     |  | Platinum + Palladium                     |  | Ceramic             |  | Monolith               |  |                  |  |
| 3   |  | Selective Catalytic Reduction |  | no precious metal / ferric oxide         |  | Ceramic             |  | Monolith               |  |                  |  |
| Mfr After Treatment Device (ATD) Comments |  |                               |  |  |  |                     |  |                        |  |                  |  |
| Direct Ozone Reduction (DOR) Device       |  | Not Equipped                  |  |  |  |                     |  |                        |  |                  |  |
| Mfr Emission Control Device Comments      |  | --                            |  |  |  |                     |  |                        |  |                  |  |
| Engine Configuration Number 1             |  |                               |  |  |  |                     |  |                        |  |                  |  |
| Engine Displacement (liters)              |  | 3.0                           |  | Engine Rated Horsepower                  |  | 240                 |  |                        |  |                  |  |
| Number of Inlet Valves Per Cylinder       |  | 2                             |  | Number of Exhaust Valves Per Cylinder    |  | 2                   |  |                        |  |                  |  |
| Air Aspiration Method                     |  | Turbocharged                  |  | Number of Air Aspiration Devices         |  | 1                   |  |                        |  |                  |  |
| Air Aspiration Device Configuration       |  | Single                        |  | Charge Air Cooler Type                   |  | Air                 |  |                        |  |                  |  |
| Cylinder Deactivation Description         |  | N/A                           |  |  |  |                     |  |                        |  |                  |  |
| Variable Valve Timing System Description  |  | N/A                           |  | Variable Valve Lift System               |  | N/A                 |  |                        |  |                  |  |
| Number of Knock Sensors                   |  | 0                             |  |  |  |                     |  |                        |  |                  |  |
| Air/Fuel Sensor # 1 Type                  |  | Heated air fuel               |  | Air/Fuel Sensor # 1 Description          |  | N/A                 |  |                        |  |                  |  |
| Mfr Air/Fuel Sensor Comments              |  | --                            |  |  |  |                     |  |                        |  |                  |  |
| Exhaust Gas Recirculation                 |  | Yes                           |  | EGR Type                                 |  | Electronic/Electric |  |                        |  |                  |  |
| Cooled Exhaust Gas Recirculation          |  | Yes                           |  |  |  |                     |  |                        |  |                  |  |
| Closed Loop Air Injection System          |  | No                            |  | Air Injection Type                       |  | --                  |  |                        |  |                  |  |
| Mfr Engine Configuration Comments         |  | --                            |  |  |  |                     |  |                        |  |                  |  |
| Official Test Numbers                     |  |                               |  |  |  |                     |  |                        |  |                  |  |
| Test Group                                |  |                               |  |  |  | EPA City            |  | EPA                    |  | CREE             |  |
| Fuel                                      |  | FTP                           |  | US06                                     |  | Litmus Value        |  | Highway Litmus Value   |  | Weighting Factor |  |
|   |  |                               |  | SC03                                     |  | Highway             |  | Threshold              |  | Threshold        |  |
| Diesel                                    |  | CMBX10016085                  |  | CMBX10016087                             |  | CMBX10016088        |  | CMBX10016089           |  | CMBX10016086     |  |
|   |  | 19.8                          |  | 19.4                                     |  | 28.4                |  | 27.2                   |  | N/A              |  |



## Application for Certification

Issue Date

Rev Date

**DMBXV03.0U2A**

## Part 1


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## Certification Summary Information Report




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**Certification Summary Information Report**


| <b>Test Group</b>                        | DMBXV03.0U2A   | <b>Evaporative/Refueling Family</b>       | N/A   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
|--|--|---|---|------------------|-----------------------|---|----------------------|--------|----|--------------------|----|----|----------------------|--------|----|--------------------|------|------|----------------------|--------|----|--------------------|------|------|---------------|---------|----|-----------------|--------|----|--------------|---------|----|---------------------------|------|------|----------------|--------|----|-------------------------|---------|----|--------------------------------------|---------|----|--------------------|--------|----|-------------------|---------|----|------------------|-----------------------|---------------------------------|----------------------------------|--------|-----|------------------|-----------------------|-----------------------|----------------|--------|-----|
| <b>Test #</b>                            | <b>CMBX10016085</b>  | <b>Test Procedure</b>                     | <b>2 - CVS 75 and later (w/o can. load)</b> |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| <b>Exhaust Test # for this Evap Test</b> | N/A  | <b>Test Fuel Type</b>                     | 19 - Cert Diesel 7-15 ppm Sulfur            |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| <b>Test Date</b>                         | 06/09/2011   | <b>Fuel</b>                               | Diesel                                      |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| <b>Vehicle Class</b>                     | LDV/Passenger Car  | <b>DF Type</b>                            | Mfr. Determined                             |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| <b>Verify Test Lab ID</b>                | Abgashaus Untertuerkheim   |   |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| <b>Test Results</b>                      | <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE MPG Equivalent Value</th></tr> </thead> <tbody> <tr><td>Bag 1 Carbon Dioxide</td><td>461.98</td><td>--</td></tr> <tr><td>Bag 1 Fuel Economy</td><td>22</td><td>22</td></tr> <tr><td>Bag 2 Carbon Dioxide</td><td>397.28</td><td>--</td></tr> <tr><td>Bag 2 Fuel Economy</td><td>25.6</td><td>25.6</td></tr> <tr><td>Bag 3 Carbon Dioxide</td><td>355.55</td><td>--</td></tr> <tr><td>Bag 3 Fuel Economy</td><td>28.6</td><td>28.6</td></tr> <tr><td>CH4 - Methane</td><td>0.02414</td><td>--</td></tr> <tr><td>Carbon Monoxide</td><td>0.0866</td><td>--</td></tr> <tr><td>Formaldehyde</td><td>0.00017</td><td>--</td></tr> <tr><td>Manufacturer Fuel Economy</td><td>25.5</td><td>25.5</td></tr> <tr><td>Nitrogen Oxide</td><td>0.0269</td><td>--</td></tr> <tr><td>Non-methane Hydrocarbon</td><td>0.00933</td><td>--</td></tr> <tr><td>Non-methane organic gas (California)</td><td>0.00933</td><td>--</td></tr> <tr><td>Particulate Matter</td><td>0.0019</td><td>--</td></tr> <tr><td>Total Hydrocarbon</td><td>0.03235</td><td>--</td></tr> </tbody> </table><br><table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td><td>399.21</td><td>399</td></tr> </tbody> </table><br><table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr> <td>Carbon dioxide</td><td>399.21</td><td>399</td></tr> </tbody> </table> |   |   | Test Result Name | Unrounded Test Result | Verify Calculated FE MPG Equivalent Value | Bag 1 Carbon Dioxide | 461.98 | -- | Bag 1 Fuel Economy | 22 | 22 | Bag 2 Carbon Dioxide | 397.28 | -- | Bag 2 Fuel Economy | 25.6 | 25.6 | Bag 3 Carbon Dioxide | 355.55 | -- | Bag 3 Fuel Economy | 28.6 | 28.6 | CH4 - Methane | 0.02414 | -- | Carbon Monoxide | 0.0866 | -- | Formaldehyde | 0.00017 | -- | Manufacturer Fuel Economy | 25.5 | 25.5 | Nitrogen Oxide | 0.0269 | -- | Non-methane Hydrocarbon | 0.00933 | -- | Non-methane organic gas (California) | 0.00933 | -- | Particulate Matter | 0.0019 | -- | Total Hydrocarbon | 0.03235 | -- | Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | Carbon-Related Exhaust Emissions | 399.21 | 399 | Test Result Name | Unrounded Test Result | Verify Calculated CO2 | Carbon dioxide | 399.21 | 399 |
| Test Result Name                         | Unrounded Test Result  | Verify Calculated FE MPG Equivalent Value |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Bag 1 Carbon Dioxide                     | 461.98   | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Bag 1 Fuel Economy                       | 22   | 22  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Bag 2 Carbon Dioxide                     | 397.28   | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Bag 2 Fuel Economy                       | 25.6   | 25.6                                      |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Bag 3 Carbon Dioxide                     | 355.55   | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Bag 3 Fuel Economy                       | 28.6   | 28.6                                      |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| CH4 - Methane                            | 0.02414  | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Carbon Monoxide                          | 0.0866   | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Formaldehyde                             | 0.00017  | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Manufacturer Fuel Economy                | 25.5   | 25.5                                      |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Nitrogen Oxide                           | 0.0269   | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Non-methane Hydrocarbon                  | 0.00933  | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Non-methane organic gas (California)     | 0.00933  | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Particulate Matter                       | 0.0019   | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Total Hydrocarbon                        | 0.03235  | --  |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Test Result Name                         | Unrounded Test Result  | Verify Calculated CREE/OPT-CREE           |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Carbon-Related Exhaust Emissions         | 399.21   | 399                                       |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Test Result Name                         | Unrounded Test Result  | Verify Calculated CO2                     |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| Carbon dioxide                           | 399.21   | 399                                       |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |
| <b>Manufacturer Test Comments</b>        | EDV config 255/45 R18 (MOE)  |   |   |                  |                       |   |                      |        |    |                    |    |    |                      |        |    |                    |      |      |                      |        |    |                    |      |      |               |         |    |                 |        |    |              |         |    |                           |      |      |                |        |    |                         |         |    |                                      |         |    |                    |        |    |                   |         |    |                  |                       |                                 |                                  |        |     |                  |                       |                       |                |        |     |

|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 10            |

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**Certification Summary Information Report**

| Test Group           |               | DMBXV03.0U2A           |                | Evaporative/Refueling Family |     |                  |                          | N/A    |         |                     |          |           |
|----------------------|---------------|------------------------|----------------|------------------------------|-----|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level         | Emission Name  | Rounded Result               | RAF | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed                  | 50,000 miles  | Federal Tier 2 Bin 5   | CO             | 0.09                         | --  | --               | 0.0047 UP                | 0.02   | --      | 0.1                 | 3.4      | Pass      |
| Fed                  | 50,000 miles  | Federal Tier 2 Bin 5   | HCHO           | 0.0002                       | --  | --               | 0.00001 UP               | 0.0    | --      | 0.000               | 0.015    | Pass      |
| Fed                  | 50,000 miles  | Federal Tier 2 Bin 5   | NMOG           | 0.0093                       | --  | 1.00             | 0.0006 UP                | 0.001  | --      | 0.011               | 0.075    | Pass      |
| Fed                  | 50,000 miles  | Federal Tier 2 Bin 5   | NOX            | 0.027                        | --  | --               | 0.003 UP                 | 0.0    | --      | 0.03                | 0.05     | Pass      |
| Fed                  | 50,000 miles  | Federal Tier 2 Bin 5   | PM             | 0.002                        | --  | --               | 0.0012 UP                | 0.0    | --      | 0.00                | 0.01     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 2 Bin 5   | CO             | 0.09                         | --  | --               | 0.0047 UP                | 0.04   | --      | 0.1                 | 4.2      | Pass      |
| Fed                  | 120,000 miles | Federal Tier 2 Bin 5   | CREE           | 399                          | --  | --               | 0 UP                     | 0.0    | --      | 399                 | --       | --        |
| Fed                  | 120,000 miles | Federal Tier 2 Bin 5   | HC-NM+NOX-COMP | 0.042                        | --  | --               | 0.0036 UP                | 0.001  | --      | 0.04                | 0.65     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 2 Bin 5   | HCHO           | 0.0002                       | --  | --               | 0.00001 UP               | 0.0    | --      | 0.000               | 0.018    | Pass      |
| Fed                  | 120,000 miles | Federal Tier 2 Bin 5   | NMOG           | 0.0093                       | --  | 1.00             | 0.0006 UP                | 0.0024 | --      | 0.012               | 0.090    | Pass      |
| Fed                  | 120,000 miles | Federal Tier 2 Bin 5   | NOX            | 0.027                        | --  | --               | 0.003 UP                 | 0.0    | --      | 0.03                | 0.07     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 2 Bin 5   | PM             | 0.002                        | --  | --               | 0.0012 UP                | 0.0    | --      | 0.00                | 0.01     | Pass      |
| Fed                  | 120,000 miles | Federal Tier 2 Bin 5   | PM-COMP        | 0.003                        | --  | --               | 0.0012 UP                | 0.0    | --      | 0.00                | 0.07     | Pass      |
| CA                   | 50,000 miles  | California LEV-II ULEV | CO             | 0.09                         | --  | --               | 0.0047 UP                | 0.02   | --      | 0.1                 | 1.7      | Pass      |
| CA                   | 50,000 miles  | California LEV-II ULEV | HCHO           | 0.0002                       | --  | --               | 0.00001 UP               | 0.0    | --      | 0.000               | 0.008    | Pass      |
| CA                   | 50,000 miles  | California LEV-II ULEV | NMOG           | 0.0093                       | --  | 1.00             | 0.0006 UP                | 0.001  | --      | 0.011               | 0.040    | Pass      |
| CA                   | 50,000 miles  | California LEV-II ULEV | NOX            | 0.027                        | --  | --               | 0.003 UP                 | 0.0    | --      | 0.03                | 0.05     | Pass      |
| CA                   | 120,000 miles | California LEV-II ULEV | CO             | 0.09                         | --  | --               | 0.0047 UP                | 0.04   | --      | 0.1                 | 2.1      | Pass      |
| CA                   | 120,000 miles | California LEV-II ULEV | CREE           | 399                          | --  | --               | 0 UP                     | 0.0    | --      | 399                 | --       | --        |
| CA                   | 120,000 miles | California LEV-II ULEV | HCHO           | 0.0002                       | --  | --               | 0.00001 UP               | 0.0    | --      | 0.000               | 0.011    | Pass      |
| CA                   | 120,000 miles | California LEV-II ULEV | NMOG           | 0.0093                       | --  | 1.00             | 0.0006 UP                | 0.0024 | --      | 0.012               | 0.055    | Pass      |
| CA                   | 120,000 miles | California LEV-II ULEV | NOX            | 0.027                        | --  | --               | 0.003 UP                 | 0.0    | --      | 0.03                | 0.07     | Pass      |

|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 11            |

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### Certification Summary Information Report

| Test Group           |               | DMBXV03.0U2A           |               |                |     | Evaporative/Refueling Family |                          |        |         | N/A                 |          |           |
|----------------------|---------------|------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life   | Standard Level         | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio             | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| CA                   | 120,000 miles | California LEV-II ULEV | PM            | 0.002          | --  | --                           | 0.0012 UP                | 0.0    | --      | 0.00                | 0.01     | Pass      |

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.


|  |                          |                       |                                  |
|--|--------------------------|-----------------------|----------------------------------|
| <b>Test #</b>                            | <b>CMBX10016089</b>      | <b>Test Procedure</b> | <b>11 - Cold CO</b>              |
| <b>Exhaust Test # for this Evap Test</b> | N/A                      | <b>Test Fuel Type</b> | 19 - Cert Diesel 7-15 ppm Sulfur |
| <b>Test Date</b>                         | 05/25/2011               | <b>Fuel</b>           | N/A                              |
| <b>Vehicle Class</b>                     | N/A                      | <b>DF Type</b>        | Mfr. Determined                  |
| <b>Verify Test Lab ID</b>                | Abgashaus Untertuerkheim |                       |                                  |

#### Test Results

| Test Result Name          | Unrounded Test Result | Verify Calculated FE MPG Equivalent Value |
|---------------------------|-----------------------|---|
| Bag 1 Carbon Dioxide      | 635.03                | --  |
| Bag 1 Fuel Economy        | 16                    | 16  |
| Bag 2 Carbon Dioxide      | 534.11                | --  |
| Bag 2 Fuel Economy        | 19.1                  | 19.1                                      |
| Bag 3 Carbon Dioxide      | 408.05                | --  |
| Bag 3 Fuel Economy        | 24.9                  | 24.9                                      |
| Carbon Monoxide           | 0.29869               | --  |
| Manufacturer Fuel Economy | 19.5                  | 19.5                                      |
| Total Hydrocarbon         | 0.02382               | --  |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide   | 520.41                | --                    |

**Manufacturer Test Comments** EDV config 255/45 R18 (MOE)

|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 12            |

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### Certification Summary Information Report


|  |                              |  |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
|--|------------------------------|--|----------------------------------|-----------------------|------------|-------------------------|---------------------------------|---------------|----------------|----------------------------|-----------------|------------------|
| <b>Test Group</b>  | DMBXV03.0U2A                 | <b>Evaporative/Refueling Family</b>              | N/A                              |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Test #</b>  | CMBX10016086                 | <b>Test Procedure</b>                            | 3 - HWFE                         |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Exhaust Test # for this Evap Test</b>   | N/A                          | <b>Test Fuel Type</b>                            | 19 - Cert Diesel 7-15 ppm Sulfur |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Test Date</b>   | 06/09/2011                   | <b>Fuel</b>                                      | Diesel                           |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Vehicle Class</b>   | LDV/Passenger Car            | <b>DF Type</b>                                   | Mfr. Determined                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Verify Test Lab ID</b>  | Abgashaus Untertuerkheim     |  |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Test Results</b>  |                              |  |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Test Result Name</b>  | <b>Unrounded Test Result</b> | <b>Verify Calculated FE MPG Equivalent Value</b> |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| CH4 - Methane  | 0.00225                      | --   |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| Carbon Monoxide  | 0.0034                       | --   |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| Manufacturer Fuel Economy  | 40.1                         | 40.1   |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| Nitrogen Oxide   | 0.0544                       | --   |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| Non-methane Hydrocarbon  | 0                            | --   |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| Total Hydrocarbon  | 0.00161                      | --   |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Test Result Name</b>  | <b>Unrounded Test Result</b> | <b>Verify Calculated CREE/OPT-CREE</b>           |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| Carbon-Related Exhaust Emissions   | 253.47                       | 253  |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Test Result Name</b>  | <b>Unrounded Test Result</b> | <b>Verify Calculated CO2</b>                     |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| Carbon dioxide   | 253.47                       | 253  |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Manufacturer Test Comments</b> EDV config 255/45 R18 (MOE)  |                              |  |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |
| <b>Certification Region</b>  | <b>Useful Life</b>           | <b>Standard Level</b>                            | <b>Emission Name</b>             | <b>Rounded Result</b> | <b>RAF</b> | <b>NMOG/NM HC Ratio</b> | <b>Diesel Adjustment Factor</b> | <b>Add DF</b> | <b>Mult DF</b> | <b>Certification Level</b> | <b>Standard</b> | <b>Pass/Fail</b> |
| Fed  | 50,000 miles                 | Federal Tier 2 Bin 5                             | NOX                              | 0.054                 | --         | --                      | 0.003 UP                        | 0.0           | --             | 0.06                       | 0.07            | Pass             |
| Fed  | 120,000 miles                | Federal Tier 2 Bin 5                             | CREE                             | 253                   | --         | --                      | 0 UP                            | 0.0           | --             | 253                        | --              | --               |
| Fed  | 120,000 miles                | Federal Tier 2 Bin 5                             | NOX                              | 0.054                 | --         | --                      | 0.003 UP                        | 0.0           | --             | 0.06                       | 0.09            | Pass             |
| CA   | 50,000 miles                 | California LEV-II ULEV                           | NOX                              | 0.054                 | --         | --                      | 0.003 UP                        | 0.0           | --             | 0.06                       | 0.07            | Pass             |
| CA   | 120,000 miles                | California LEV-II ULEV                           | CREE                             | 253                   | --         | --                      | 0 UP                            | 0.0           | --             | 253                        | --              | --               |
| CA   | 120,000 miles                | California LEV-II ULEV                           | NOX                              | 0.054                 | --         | --                      | 0.003 UP                        | 0.0           | --             | 0.06                       | 0.09            | Pass             |
| <b>NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.</b> |                              |  |                                  |                       |            |                         |                                 |               |                |                            |                 |                  |

|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 13            |

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### Certification Summary Information Report


| <b>Test Group</b>   | DMBXV03.0U2A   | <b>Evaporative/Refueling Family</b>       | N/A                              |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
|---|--|---|----------------------------------|---|----------------------|-------------------------|---------------------------------|--------------------|----------------|----------------------------|----------------------|------------------|----|--------------------|----------|----------|-----------------|---------|----|---------------------------|---------|---------|----------------|---------|----|-------------------------|---|----|--------------------|---------|----|---|---------|----|-------------------|---------|----|--|--|
| <b>Test #</b>   | CMBX10016087   | <b>Test Procedure</b>                     | 90 - US06                        |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| <b>Exhaust Test # for this Evap Test</b>                        | N/A  | <b>Test Fuel Type</b>                     | 19 - Cert Diesel 7-15 ppm Sulfur |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| <b>Test Date</b>  | 06/07/2011   | <b>Fuel</b>                               | Diesel                           |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| <b>Vehicle Class</b>  | LDV/Passenger Car  | <b>DF Type</b>                            | Mfr. Determined                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| <b>Verify Test Lab ID</b>                                       | Abgashaus Untertuerkheim   |   |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| <b>Test Results</b>   |  |   |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
|   | <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE MPG Equivalent Value</th></tr> </thead> <tbody> <tr> <td>Bag 1 Carbon Dioxide</td><td>661.51</td><td>--</td></tr> <tr> <td>Bag 1 Fuel Economy</td><td>15.38224</td><td>15.38224</td></tr> <tr> <td>Bag 2 Carbon Dioxide</td><td>334.47</td><td>--</td></tr> <tr> <td>Bag 2 Fuel Economy</td><td>30.42171</td><td>30.42171</td></tr> <tr> <td>Carbon Monoxide</td><td>0.00499</td><td>--</td></tr> <tr> <td>Manufacturer Fuel Economy</td><td>24.9888</td><td>24.9888</td></tr> <tr> <td>Nitrogen Oxide</td><td>0.02334</td><td>--</td></tr> <tr> <td>Non-methane Hydrocarbon</td><td>0</td><td>--</td></tr> <tr> <td>Particulate Matter</td><td>0.00402</td><td>--</td></tr> <tr> <td>SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03</td><td>0.02334</td><td>--</td></tr> <tr> <td>Total Hydrocarbon</td><td>0.00354</td><td>--</td></tr> </tbody> </table> | Test Result Name                          | Unrounded Test Result            | Verify Calculated FE MPG Equivalent Value | Bag 1 Carbon Dioxide | 661.51                  | --                              | Bag 1 Fuel Economy | 15.38224       | 15.38224                   | Bag 2 Carbon Dioxide | 334.47           | -- | Bag 2 Fuel Economy | 30.42171 | 30.42171 | Carbon Monoxide | 0.00499 | -- | Manufacturer Fuel Economy | 24.9888 | 24.9888 | Nitrogen Oxide | 0.02334 | -- | Non-methane Hydrocarbon | 0 | -- | Particulate Matter | 0.00402 | -- | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 | 0.02334 | -- | Total Hydrocarbon | 0.00354 | -- |  |  |
| Test Result Name  | Unrounded Test Result  | Verify Calculated FE MPG Equivalent Value |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Bag 1 Carbon Dioxide  | 661.51   | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Bag 1 Fuel Economy  | 15.38224   | 15.38224                                  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Bag 2 Carbon Dioxide  | 334.47   | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Bag 2 Fuel Economy  | 30.42171   | 30.42171                                  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Carbon Monoxide   | 0.00499  | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Manufacturer Fuel Economy                                       | 24.9888  | 24.9888                                   |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Nitrogen Oxide  | 0.02334  | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Non-methane Hydrocarbon   | 0  | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Particulate Matter  | 0.00402  | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 | 0.02334  | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Total Hydrocarbon   | 0.00354  | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
|   | <table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr> <td>Carbon dioxide</td><td>407.2</td><td>--</td></tr> </tbody> </table>   | Test Result Name                          | Unrounded Test Result            | Verify Calculated CO2                     | Carbon dioxide       | 407.2                   | --                              |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Test Result Name  | Unrounded Test Result  | Verify Calculated CO2                     |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Carbon dioxide  | 407.2  | --  |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| <b>Manufacturer Test Comments</b>                               |  | EDV config 255/45 R18 (MOE)               |                                  |   |                      |                         |                                 |                    |                |                            |                      |                  |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| <b>Certification Region</b>                                     | <b>Useful Life</b>   | <b>Standard Level</b>                     | <b>Emission Name</b>             | <b>Rounded Result</b>                     | <b>RAF</b>           | <b>NMOG/NM HC Ratio</b> | <b>Diesel Adjustment Factor</b> | <b>Add DF</b>      | <b>Mult DF</b> | <b>Certification Level</b> | <b>Standard</b>      | <b>Pass/Fail</b> |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Fed   | 4,000 miles  | Federal Tier 2 Bin 5                      | CO                               | 0.00                                      | --                   | --                      | 0.0047 UP                       | --                 | --             | 0.0                        | 8.0                  | Pass             |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Fed   | 4,000 miles  | Federal Tier 2 Bin 5                      | HC-NM+NOX                        | 0.023                                     | --                   | --                      | 0.0036 UP                       | --                 | --             | 0.03                       | 0.14                 | Pass             |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| Fed   | 120,000 miles  | Federal Tier 2 Bin 5                      | CO                               | 0.00                                      | --                   | --                      | 0.0047 UP                       | 0.04               | --             | 0.0                        | 11.1                 | Pass             |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| CA  | 4,000 miles  | California LEV-II ULEV                    | CO                               | 0.00                                      | --                   | --                      | 0.0047 UP                       | --                 | --             | 0.0                        | 8.0                  | Pass             |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |
| CA  | 4,000 miles  | California LEV-II ULEV                    | HC-NM+NOX                        | 0.023                                     | --                   | --                      | 0.0036 UP                       | --                 | --             | 0.03                       | 0.14                 | Pass             |    |                    |          |          |                 |         |    |                           |         |         |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |  |  |

|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 14            |

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|  |                           |   |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
|--|---------------------------|---|----------------------------------|------------------|-----------------------|---|--------------------------|---------|---------|---------------------------|----------|-----------|----------------|---------|----|-------------------------|---|----|--------------------|---------|----|---|---------|----|-------------------|---------|----|
| Test Group   | DMBXV03.0U2A              | Evaporative/Refueling Family              | N/A                              |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Test #   | CMBX10016088              | Test Procedure                            | 95 - SC03                        |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Exhaust Test # for this Evap Test  | N/A                       | Test Fuel Type                            | 19 - Cert Diesel 7-15 ppm Sulfur |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Test Date  | 06/09/2011                | Fuel                                      | Diesel                           |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Vehicle Class  | LDV/Passenger Car         | DF Type                                   | Mfr. Determined                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Verify Test Lab ID   | Abgashauss Untertuerkheim |   |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Test Results   |                           |   |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| <table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE MPG Equivalent Value</td></tr><tr><td>Carbon Monoxide</td><td>0.00628</td><td>--</td></tr><tr><td>Manufacturer Fuel Economy</td><td>24.6</td><td>24.6</td></tr><tr><td>Nitrogen Oxide</td><td>0.05601</td><td>--</td></tr><tr><td>Non-methane Hydrocarbon</td><td>0</td><td>--</td></tr><tr><td>Particulate Matter</td><td>0.00161</td><td>--</td></tr><tr><td>SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03</td><td>0.05601</td><td>--</td></tr><tr><td>Total Hydrocarbon</td><td>0.00595</td><td>--</td></tr></table> |                           |   |                                  | Test Result Name | Unrounded Test Result | Verify Calculated FE MPG Equivalent Value | Carbon Monoxide          | 0.00628 | --      | Manufacturer Fuel Economy | 24.6     | 24.6      | Nitrogen Oxide | 0.05601 | -- | Non-methane Hydrocarbon | 0 | -- | Particulate Matter | 0.00161 | -- | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 | 0.05601 | -- | Total Hydrocarbon | 0.00595 | -- |
| Test Result Name   | Unrounded Test Result     | Verify Calculated FE MPG Equivalent Value |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Carbon Monoxide  | 0.00628                   | --  |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Manufacturer Fuel Economy  | 24.6                      | 24.6                                      |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Nitrogen Oxide   | 0.05601                   | --  |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Non-methane Hydrocarbon  | 0                         | --  |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Particulate Matter   | 0.00161                   | --  |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03  | 0.05601                   | --  |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Total Hydrocarbon  | 0.00595                   | --  |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| <table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CO2</td></tr><tr><td>Carbon dioxide</td><td>414.42</td><td>--</td></tr></table>  |                           |   |                                  | Test Result Name | Unrounded Test Result | Verify Calculated CO2                     | Carbon dioxide           | 414.42  | --      |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Test Result Name   | Unrounded Test Result     | Verify Calculated CO2                     |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Carbon dioxide   | 414.42                    | --  |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Manufacturer Test Comments EDV config 255/45 R18 (MOE)   |                           |   |                                  |                  |                       |   |                          |         |         |                           |          |           |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Certification Region   | Useful Life               | Standard Level                            | Emission Name                    | Rounded Result   | RAF                   | NMOG/NM HC Ratio                          | Diesel Adjustment Factor | Add DF  | Mult DF | Certification Level       | Standard | Pass/Fail |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Fed  | 4,000 miles               | Federal Tier 2 Bin 5                      | CO                               | 0.01             | --                    | --  | 0.0047 UP                | --      | --      | 0.0                       | 2.7      | Pass      |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Fed  | 4,000 miles               | Federal Tier 2 Bin 5                      | HC-NM+NOX                        | 0.056            | --                    | --  | 0.0036 UP                | --      | --      | 0.06                      | 0.20     | Pass      |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| Fed  | 120,000 miles             | Federal Tier 2 Bin 5                      | CO                               | 0.01             | --                    | --  | 0.0047 UP                | 0.04    | --      | 0.1                       | 3.7      | Pass      |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| CA   | 4,000 miles               | California LEV-II ULEV                    | CO                               | 0.01             | --                    | --  | 0.0047 UP                | --      | --      | 0.0                       | 2.7      | Pass      |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |
| CA   | 4,000 miles               | California LEV-II ULEV                    | HC-NM+NOX                        | 0.056            | --                    | --  | 0.0036 UP                | --      | --      | 0.06                      | 0.20     | Pass      |                |         |    |                         |   |    |                    |         |    |   |         |    |                   |         |    |

|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 15            |

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| Test Group                     |                | DMBXV03.0U2A                        |     |             | Evaporative/Refueling Family    |                                   | N/A                              |        |       |
|--------------------------------|----------------|-------------------------------------|-----|-------------|---------------------------------|-----------------------------------|----------------------------------|--------|-------|
| Consolidated List of Standards |                |                                     |     |             |                                 |                                   |                                  |        |       |
| Exhaust Standards              |                |                                     |     |             |                                 |                                   |                                  |        |       |
| Cert Region                    |                | Federal                             |     |             | Cert/In-Use Code                |                                   | Both                             |        |       |
| Vehicle Class                  |                | LDV/Passenger Car                   |     |             | Standard Level                  |                                   | Federal Tier 2 Bin 5             |        |       |
| Fuel                           |                | Diesel                              |     |             | Test Procedure                  |                                   | CVS 75 and later (w/o can. load) |        |       |
| Useful Life                    | Emission Name  | Rounded Result                      | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF                          | Add DF | Std   |
| 50,000 miles                   | CO             | --                                  | --  | --          | 0.0047                          | 0                                 | --                               | 0.02   | 3.4   |
| 50,000 miles                   | HCHO           | --                                  | --  | --          | 0.00001                         | 0                                 | --                               | 0.0    | 0.015 |
| 50,000 miles                   | NMOG           | --                                  | --  | 1.00        | 0.0006                          | 0                                 | --                               | 0.001  | 0.075 |
| 50,000 miles                   | NOX            | --                                  | --  | --          | 0.003                           | 0                                 | --                               | 0.0    | 0.05  |
| 50,000 miles                   | PM             | --                                  | --  | --          | 0.0012                          | 0                                 | --                               | 0.0    | 0.01  |
| 120,000 miles                  | CO             | --                                  | --  | --          | 0.0047                          | 0                                 | --                               | 0.04   | 4.2   |
| 120,000 miles                  | CREE           | --                                  | --  | --          | 0                               | 0                                 | --                               | 0.0    | 999   |
| 120,000 miles                  | HC-NM+NOX-COMP | --                                  | --  | --          | 0.0036                          | 0                                 | --                               | 0.001  | 0.65  |
| 120,000 miles                  | HCHO           | --                                  | --  | --          | 0.00001                         | 0                                 | --                               | 0.0    | 0.018 |
| 120,000 miles                  | NMOG           | --                                  | --  | 1.00        | 0.0006                          | 0                                 | --                               | 0.0024 | 0.090 |
| 120,000 miles                  | NOX            | --                                  | --  | --          | 0.003                           | 0                                 | --                               | 0.0    | 0.07  |
| 120,000 miles                  | PM             | --                                  | --  | --          | 0.0012                          | 0                                 | --                               | 0.0    | 0.01  |
| 120,000 miles                  | PM-COMP        | --                                  | --  | --          | 0.0012                          | 0                                 | --                               | 0.0    | 0.07  |
|                                |                |                                     |     |             |                                 |                                   |                                  |        |       |
| Cert Region                    |                | California + CAA Section 177 states |     |             | Cert/In-Use Code                |                                   | Both                             |        |       |
| Vehicle Class                  |                | LDV/Passenger Car                   |     |             | Standard Level                  |                                   | California LEV-II ULEV           |        |       |
| Fuel                           |                | Diesel                              |     |             | Test Procedure                  |                                   | HWFE                             |        |       |
| Useful Life                    | Emission Name  | Rounded Result                      | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF                          | Add DF | Std   |
| 50,000 miles                   | NOX            | --                                  | --  | --          | 0.003                           | 0                                 | --                               | 0.0    | 0.07  |
| 120,000 miles                  | CREE           | --                                  | --  | --          | 0                               | 0                                 | --                               | 0.0    | 999   |
| 120,000 miles                  | NOX            | --                                  | --  | --          | 0.003                           | 0                                 | --                               | 0.0    | 0.09  |


|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 16            |

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### Certification Summary Information Report

|                      |                      |                                     |            |                    |  |  |                                  |               |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|--|--|----------------------------------|---------------|------------|
| <b>Test Group</b>    |                      | DMBXV03.0U2A                        |            |                    | <b>Evaporative/Refueling Family</b>    |  | N/A                              |               |            |
| <b>Cert Region</b>   |                      | Federal                             |            |                    | <b>Cert/In-Use Code</b>                |  | Both                             |               |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |  | Federal Tier 2 Bin 5             |               |            |
| <b>Fuel</b>          |                      | Diesel                              |            |                    | <b>Test Procedure</b>                  |  | HWFE                             |               |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b>                   | <b>Add DF</b> | <b>Std</b> |
| 50,000 miles         | NOX                  | --                                  | --         | --                 | 0.003                                  | 0  | --                               | 0.0           | 0.07       |
| 120,000 miles        | CREE                 | --                                  | --         | --                 | 0                                      | 0  | --                               | 0.0           | 999        |
| 120,000 miles        | NOX                  | --                                  | --         | --                 | 0.003                                  | 0  | --                               | 0.0           | 0.09       |
|                      |                      |                                     |            |                    |  |  |                                  |               |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |  | Both                             |               |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |  | California LEV-II ULEV           |               |            |
| <b>Fuel</b>          |                      | Diesel                              |            |                    | <b>Test Procedure</b>                  |  | CVS 75 and later (w/o can. load) |               |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b>                   | <b>Add DF</b> | <b>Std</b> |
| 50,000 miles         | CO                   | --                                  | --         | --                 | 0.0047                                 | 0  | --                               | 0.02          | 1.7        |
| 50,000 miles         | HCHO                 | --                                  | --         | --                 | 0.00001                                | 0  | --                               | 0.0           | 0.008      |
| 50,000 miles         | NMOG                 | --                                  | --         | 1.00               | 0.0006                                 | 0  | --                               | 0.001         | 0.040      |
| 50,000 miles         | NOX                  | --                                  | --         | --                 | 0.003                                  | 0  | --                               | 0.0           | 0.05       |
| 120,000 miles        | CO                   | --                                  | --         | --                 | 0.0047                                 | 0  | --                               | 0.04          | 2.1        |
| 120,000 miles        | CREE                 | --                                  | --         | --                 | 0                                      | 0  | --                               | 0.0           | 999        |
| 120,000 miles        | HCHO                 | --                                  | --         | --                 | 0.00001                                | 0  | --                               | 0.0           | 0.011      |
| 120,000 miles        | NMOG                 | --                                  | --         | 1.00               | 0.0006                                 | 0  | --                               | 0.0024        | 0.055      |
| 120,000 miles        | NOX                  | --                                  | --         | --                 | 0.003                                  | 0  | --                               | 0.0           | 0.07       |
| 120,000 miles        | PM                   | --                                  | --         | --                 | 0.0012                                 | 0  | --                               | 0.0           | 0.01       |
|                      |                      |                                     |            |                    |  |  |                                  |               |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |  | Both                             |               |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |  | California LEV-II ULEV           |               |            |
| <b>Fuel</b>          |                      | Diesel                              |            |                    | <b>Test Procedure</b>                  |  | US06                             |               |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b>                   | <b>Add DF</b> | <b>Std</b> |
| 4,000 miles          | CO                   | --                                  | --         | --                 | 0.0047                                 | 0  | --                               | --            | 8.0        |
| 4,000 miles          | HC-NM+NOX            | --                                  | --         | --                 | 0.0036                                 | 0  | --                               | --            | 0.14       |




|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 17            |

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### Certification Summary Information Report

|                      |                      |                                     |            |                    |  |  |                        |               |            |
|----------------------|----------------------|-------------------------------------|------------|--------------------|--|--|------------------------|---------------|------------|
| <b>Test Group</b>    |                      | DMBXV03.0U2A                        |            |                    | <b>Evaporative/Refueling Family</b>    |  | N/A                    |               |            |
| <b>Cert Region</b>   |                      | Federal                             |            |                    | <b>Cert/In-Use Code</b>                |  | Both                   |               |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |  | Federal Tier 2 Bin 5   |               |            |
| <b>Fuel</b>          |                      | Diesel                              |            |                    | <b>Test Procedure</b>                  |  | US06                   |               |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b>         | <b>Add DF</b> | <b>Std</b> |
| 4,000 miles          | CO                   | --                                  | --         | --                 | 0.0047                                 | 0  | --                     | --            | 8.0        |
| 4,000 miles          | HC-NM+NOX            | --                                  | --         | --                 | 0.0036                                 | 0  | --                     | --            | 0.14       |
| 120,000 miles        | CO                   | --                                  | --         | --                 | 0.0047                                 | 0  | --                     | 0.04          | 11.1       |
|                      |                      |                                     |            |                    |  |  |                        |               |            |
| <b>Cert Region</b>   |                      | Federal                             |            |                    | <b>Cert/In-Use Code</b>                |  | Both                   |               |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |  | Federal Tier 2 Bin 5   |               |            |
| <b>Fuel</b>          |                      | Diesel                              |            |                    | <b>Test Procedure</b>                  |  | SC03                   |               |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b>         | <b>Add DF</b> | <b>Std</b> |
| 4,000 miles          | CO                   | --                                  | --         | --                 | 0.0047                                 | 0  | --                     | --            | 2.7        |
| 4,000 miles          | HC-NM+NOX            | --                                  | --         | --                 | 0.0036                                 | 0  | --                     | --            | 0.20       |
| 120,000 miles        | CO                   | --                                  | --         | --                 | 0.0047                                 | 0  | --                     | 0.04          | 3.7        |
|                      |                      |                                     |            |                    |  |  |                        |               |            |
| <b>Cert Region</b>   |                      | California + CAA Section 177 states |            |                    | <b>Cert/In-Use Code</b>                |  | Both                   |               |            |
| <b>Vehicle Class</b> |                      | LDV/Passenger Car                   |            |                    | <b>Standard Level</b>                  |  | California LEV-II ULEV |               |            |
| <b>Fuel</b>          |                      | Diesel                              |            |                    | <b>Test Procedure</b>                  |  | SC03                   |               |            |
| <b>Useful Life</b>   | <b>Emission Name</b> | <b>Rounded Result</b>               | <b>RAF</b> | <b>NMOG / NMHC</b> | <b>Upward Diesel Adjustment Factor</b> | <b>Downward Diesel Adjustment Factor</b> | <b>Mult DF</b>         | <b>Add DF</b> | <b>Std</b> |
| 4,000 miles          | CO                   | --                                  | --         | --                 | 0.0047                                 | 0  | --                     | --            | 2.7        |
| 4,000 miles          | HC-NM+NOX            | --                                  | --         | --                 | 0.0036                                 | 0  | --                     | --            | 0.20       |

|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 18            |

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### Certification Summary Information Report


| Test Group                      | DMBXV03.0U2A  |  | Evaporative/Refueling Family |  | N/A   |  |
|---------------------------------|---|--|------------------------------|--|---|--|
| Glossary                        |   |  |                              |  |   |  |
| Useful Life                     |   |  |                              |  |   |  |
| 4                               | 4,000 miles   |  | 120                          |  | 120,000 miles                                     |  |
| 50                              | 50,000 miles  |  | 150                          |  | 150,000 miles                                     |  |
| 100                             | 100,000 miles   |  |                              |  |   |  |
| Emission Name                   |   |  |                              |  |   |  |
| HC-TOTAL                        | Total Hydrocarbon   |  | FE BAG 2                     |  | Bag 2 Fuel Economy                                |  |
| CO                              | Carbon Monoxide   |  | FE BAG 3                     |  | Bag 3 Fuel Economy                                |  |
| CO2                             | Carbon dioxide  |  | FE BAG 4                     |  | Bag 4 Fuel Economy                                |  |
| CREE                            | Carbon-Related Exhaust Emissions                                |  | MFR FE                       |  | Manufacturer Fuel Economy                         |  |
| OPT-CREE                        | Optional Carbon-Related Exhaust Emissions                       |  | HC                           |  | Hydrocarbon for Running Loss and ORVR             |  |
| NOX                             | Nitrogen Oxide  |  | METHANE                      |  | CH4 - Methane                                     |  |
| PM                              | Particulate Matter  |  | METHANOL                     |  | CH3OH - Methanol                                  |  |
| PM-COMP                         | SFTP Composite Particulate Matter                               |  | N2O                          |  | Nitrous Oxide                                     |  |
| HC-NM                           | Non-methane Hydrocarbon   |  | SPITBACK                     |  | Spitback Hydrocarbon in grams                     |  |
| OMHCE                           | Organic material Hydrocarbon Equivalent                         |  | AMP-HRS                      |  | Integrated Amp-hours                              |  |
| OMNMHCE                         | Organic material non-methane HC equivalent                      |  | START-SOC                    |  | System Start State of Charge Watt-hours           |  |
| NMOG                            | Non-methane organic gas (California)                            |  | END-SOC                      |  | System End State of Charge Watt-hours             |  |
| HCHO                            | Formaldehyde  |  | ACT-DISTANCE                 |  | Actual Distance Driven (miles)                    |  |
| H3C2HO                          | Acetaldehyde  |  | AS-VOLT                      |  | Average System Voltage                            |  |
| HC-NM+NOX                       | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 |  | CO2 BAG 1                    |  | Bag 1 Carbon Dioxide                              |  |
| HC-NM+NOX-COMP                  | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides        |  | CO2 BAG 2                    |  | Bag 2 Carbon Dioxide                              |  |
| CO-COMP                         | SFTP Composite Carbon Monoxide                                  |  | CO2 BAG 3                    |  | Bag 3 Carbon Dioxide                              |  |
| ETHANOL                         | C2H5OH - Ethanol  |  | CO2 BAG 4                    |  | Bag 4 Carbon Dioxide                              |  |
| FE BAG 1                        | Bag 1 Fuel Economy  |  |                              |  |   |  |
| Certification Region            |   |  |                              |  |   |  |
| CA                              | California + CAA Section 177 states                             |  | FA                           |  | Federal   |  |
| Exhaust Emission Standard Level |   |  |                              |  |   |  |
| B1                              | Federal Tier 2 Bin 1  |  | HDV1                         |  | HDV1 (Federal HD chassis Class 2b GVW 8501-10000) |  |
| B2                              | Federal Tier 2 Bin 2  |  | HDV2                         |  | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) |  |
| B3                              | Federal Tier 2 Bin 3  |  | L2                           |  | California LEV-II LEV                             |  |
| B4                              | Federal Tier 2 Bin 4  |  | L2OP                         |  | California LEV-II LEV Optional                    |  |
| B5                              | Federal Tier 2 Bin 5  |  | U2                           |  | California LEV-II ULEV                            |  |
| B6                              | Federal Tier 2 Bin 6  |  | S2                           |  | California LEV-II SULEV                           |  |
| B7                              | Federal Tier 2 Bin 7  |  | ZEV                          |  | California ZEV                                    |  |
| B8                              | Federal Tier 2 Bin 8  |  | OT                           |  | Other   |  |
| B9                              | Federal Tier 2 Bin 9  |  | T1                           |  | Federal Tier 1                                    |  |
| B10                             | Federal Tier 2 Bin 10   |  | PZEV                         |  | California PZEV                                   |  |
| B11                             | Federal Tier 2 Bin 11   |  |                              |  |   |  |

|   |           |                |                                      |                   |                 |                     |
|---|-----------|----------------|--------------------------------------|-------------------|-----------------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | <b>Issue Date</b> | <b>Rev Date</b> | <b>DMBXV03.0U2A</b> |
|   |           | <b>Part 1</b>  | <b>S-07: Test Results</b>            | Jul-26-12         |                 | Page: 19            |

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### Certification Summary Information Report

| Test Group                    |   | DMBXV03.0U2A |  | Evaporative/Refueling Family |  | N/A |  |
|-------------------------------|---|--------------|--|------------------------------|--|-----|--|
| Transmission Type Code        |   |              |  |                              |  |     |  |
| AMS                           | Automated Manual- Selectable (e.g. Automated Manual with paddles) |              |  | M                            | Manual   |     |  |
| A                             | Automatic   |              |  | OT                           | Other  |     |  |
| AM                            | Automated Manual  |              |  | SA                           | Semi-Automatic   |     |  |
| CVT                           | Continuously Variable   |              |  | SCV                          | Selectable Continuously Variable (e.g. CVT with paddles) |     |  |
| Drive System Code             |   |              |  |                              |  |     |  |
| 4                             | 4-Wheel Drive   |              |  | P                            | Part-time 4-Wheel Drive                                  |     |  |
| F                             | 2-Wheel Drive, Front  |              |  | A                            | All Wheel Drive  |     |  |
| R                             | 2-Wheel Drive, Rear   |              |  |                              |  |     |  |
| Additional Terms and Acronyms |   |              |  |                              |  |     |  |
| AFC                           | Alternative Fuel Converter  |              |  | ICI                          | Independent Commercial Importer                          |     |  |
| CSI                           | Certificate Summary Information                                   |              |  | ORVR                         | Onboard Refueling Vapor Recovery                         |     |  |
| DF                            | Deterioration Factor  |              |  | SIL                          | Shift Indicator Light                                    |     |  |
| Evap                          | Evaporation, Evaporative  |              |  | Trans                        | Transmission   |     |  |

|  |           |                |                                      |            |          |                     |
|--|-----------|----------------|--------------------------------------|------------|----------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | Issue Date | Rev Date | <b>DMBXV03.0U2A</b> |
|  |           | <b>Part 1</b>  | <b>S-08: Statements</b>              | Jul-26-12  |          | Page: 20            |

## **S-08: Statements**

Please refer to the common application for certification.

## **S-09: OBD-System Information**

The OBD approval is listed in specific section 14.

## **S-10: Alternate Fuel (if applicable)**

This test group does not cover flexible or dedicated alternate fuel vehicles.

## **S-11: List of AECD**

Please refer to S-16 for a detailed description of AECDs including functional explanations.

## **S-12: Identification and Description of certified vehicles**

The identification and description of all vehicles covered by the certificate is given  
- in section 02 (common) for exhaust purposes

All appropriate test parameters necessary to conduct an official certification exhaust or evaporative emission test are provided in sections 07 or 17.

## **S-13: Projected US vehicle sales**

Please refer to the common application for certification.

|  |           |                |                                      |            |          |                     |
|--|-----------|----------------|--------------------------------------|------------|----------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | Issue Date | Rev Date | <b>DMBXV03.0U2A</b> |
|  |           | <b>Part 1</b>  | <b>S-14: Request for Certificate</b> | Jul-26-12  |          | Page: 21            |

## S-14: Request for Certificate

### S-14-01: Request for Certificate

Mercedes-Benz requests that EPA issues a certificate of conformity and that ARB issues an executive order for the test group listed on the cover page of this application.

The applicable test results are listed in section 07. The test group complies with all applicable regulations contained within 40 CFR Part 86. The application is current as of this date.



Markus Loesch

Note: Compliance statements are listed in the common section 08.

### S-14-02: OBD approval

For OBD approval see confidential section (S-16)

|  |           |                |                                      |            |          |                     |
|--|-----------|----------------|--------------------------------------|------------|----------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | Issue Date | Rev Date | <b>DMBXV03.0U2A</b> |
|  |           | <b>Part 1</b>  | <b>S-14: Request for Certificate</b> | Jul-26-12  |          | Page: 22            |

S-14-03: Fee filing form

EPA Form 3520-29 OMB Control No. 2060-0545

**EPA** U.S. ENVIRONMENTAL PROTECTION AGENCY  
MOTOR VEHICLE AND ENGINE COMPLIANCE PROGRAM  
ON-HIGHWAY FEE FILING FORM  
FOR CERTIFICATION APPLICATIONS RECEIVED IN CALENDAR YEAR 2012

Manufacturer Name Mercedes-Benz USA, LLC.  
Address One Mercedes Drive  
City/State/Zip Code/Country Montvale, NJ 07645

On-Highway Certification Request Type (check one)

|   |   |
|---|---|
| <input checked="" type="checkbox"/> LDV/LDT/MDPV/HDV (Chassis cert) <b>FEDERAL</b> (\$32,678) | <input type="checkbox"/> HDV EVAP-ONLY (\$511)  |
| <input type="checkbox"/> LDV/LDT/MDPV/HDV (Chassis cert) <b>CAL-ONLY</b> (\$16,899)           | <input type="checkbox"/> HDE CALIF-ONLY (\$511) |
| <input type="checkbox"/> HDE (Engine Dyno cert) <b>FEDERAL</b> (\$42,506)                     | <input type="checkbox"/> MOTORCYCLE (\$1,210)   |
| <input type="checkbox"/> LD/MDPV/HDV ICI (\$53,639)   |   |

EPA standard family or test group name: 

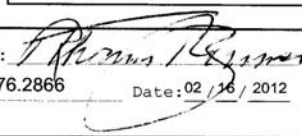
|   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D | M | B | X | V | 0 | 3 | . | 0 | U | 2 | A |
|---|---|---|---|---|---|---|---|---|---|---|---|

Amount paid (U.S. Funds Only): \$ 32,678.00

Enter the check number, or the statement "WIRE" or "ACH": WIRE

**Reduced Fee Section (40 CFR §1027.120)**  
Reduced fee calculation (minimum initial payment \$750): Total number of vehicles/units covered: \_\_\_\_\_  
Aggregate retail sales price of the vehicles/units: \$ \_\_\_\_\_ x 1% = \$ \_\_\_\_\_  
Check box if an Independent Commercial Importer: ☐ List the VIN of imported vehicles/engines below:

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |

Company Representative: R-Thomas Brunner Signature:   
Title: Manager, VCA Dept. Phone/Fax: 201.573.2622 / 201.476.2866 Date: 02/16/2012  
E-mail Address: r-thomas.brunner@mbusa.com

**Submission of payments and forms:**  
(1) Online: **Forms** may be found and submitted with or without **payments** online at [www.Pay.gov](http://www.Pay.gov).  
(2) By mail: For check payments only, send **checks** and this **form** to:

**Environmental Protection Agency**  
**Motor Vehicle and Engine Compliance Program**  
P.O. Box 979032  
St. Louis, MO 63197-9000

(3) Transmit offline **Wire payments** to the New York Federal Reserve Bank. (See Instructions, p.2)  
(4) Transmit offline **ACH payments** to the Federal Reserve Bank of Cleveland. (Instructions, p.2)  
(5) **Forms** not submitted under (1) and (2) above can be sent as email attachments to [Fees@epa.gov](mailto:Fees@epa.gov).  
Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

This form expires: 1/1/2013

|  |           |                |                                      |            |          |                     |
|--|-----------|----------------|--------------------------------------|------------|----------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | Issue Date | Rev Date | <b>DMBXV03.0U2A</b> |
|  |           | <b>Part 1</b>  | <b>S-14: Request for Certificate</b> | Jul-26-12  |          | Page: 23            |

S-14-04: Approval Letters low ash oil



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY**  
 2565 PLYMOUTH ROAD  
 ANN ARBOR, MICHIGAN 48105-2498

OFFICE OF  
AIR AND RADIATION

September 27, 2005

Mr. Reginald Modlin  
 Director, Environmental and Energy Planning  
 DaimlerChrysler Corporation  
 800 Chrysler Drive  
 Auburn Hills, MI 48326-2757  
 CIMS 482-00-71

**RECEIVED**

**OCT 07 2005**


**R. R. MODLIN**

Mr. Modlin,

Thank you for your August 30, 2005 letter regarding DaimlerChrysler's desire to use low ash content engine oil to certify your clean light-duty diesel vehicles. As you correctly noted in your letter, EPA Guidance Documents CCD-01-12 (Use of GF-3 Engine Oil in Test Vehicles) and CCD-04-07 (Use of GF-4 Engine Oil in Certification and Fuel Economy Test Vehicles) are the basis for how EPA determines how to deal with unique engine oils with respect to certification and fuel economy testing.

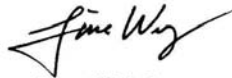
EPA agrees that the use of low ash content engine oil (0.8%) will be beneficial to allowing new advanced particulate filter systems to meet their full potential for performing over the full useful life of the vehicles. Our primary concern with manufacturer's request to certify with unique engine oils is that these oils be readily available to consumers. We realize that the number of light-duty diesel vehicles in the U.S. is low and that the demand for clean light-duty diesel engine oil is also low and that it will be initially difficult to establish widespread distribution of low ash oil.

The plan proposed by DaimlerChrysler for the use and certification of low ash content engine oil, which includes the availability of the low ash engine oil at the 4,300 DaimlerChrysler dealerships in the U.S., the investigation of the potential for making the engine oil available through automotive aftermarket retail chains (Auto Zone, NAPA, etc.) through DaimlerChrysler's MOPAR aftermarket organization, and the continued work with oil manufacturers to market the oil through their outlets and promote the use of the oil at "quick oil change" facilities, appears to be reasonable. Therefore, we are approving DaimlerChrysler's plan to use low ash content engine oil for the certification of light-duty diesel vehicles.

|  |           |                |                                      |            |          |                     |
|--|-----------|----------------|--------------------------------------|------------|----------|---------------------|
| <br>Mercedes-Benz | <b>US</b> | <b>MY 2013</b> | <b>Application for Certification</b> | Issue Date | Rev Date | <b>DMBXV03.0U2A</b> |
|  |           | <b>Part 1</b>  |                                      | Jul-26-12  |          | Page: 24            |

Please let me know if you any additional questions. You can contact me at 734-214-4286.

Sincerely,



Linc Wehrly  
Compliance and Innovative Strategies Division  
Office of Transportation and Air Quality

### **S-15: HEV-specific data (if applicable)**

No Hybrid Electric Vehicles (HEV) are part of this test group.